

ABSTRACT OF THE DISCLOSURE

**DEVICE FOR DRIVING A POWER TRANSISTOR OF A VOLTAGE
CONVERTER PROVIDED WITH A PIEZOELECTRIC TRANSFORMER
AND CORRESPONDING VOLTAGE CONVERTER**

A driving device is provided for driving at least one power transistor of a voltage converter that includes a piezoelectric transformer. The power transistor has a first non-drivable terminal coupled to an input voltage and to the input of the piezoelectric transformer. The converter includes an inductor coupled between the input voltage and the piezoelectric transformer, and a resistor coupled between a second non-drivable terminal of the power transistor and ground. The driving device is coupled to the drivable terminal of the power transistor, to the input of the piezoelectric transformer, and to the second non-drivable terminal of the power transistor so as to detect a first voltage value and a second current value. The driving device is adapted to cause the turning on of the power transistor if the first voltage value is equal to a third prefixed voltage value, and to cause the turning off of the power transistor if the second current value is equal to a fourth prefixed current value.

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